

Yeogyeeong Song

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EDUCATION

Sungshin Women's University
B.S. in Artificial Intelligence

Seoul, South Korea
Feb 2021 – Feb 2026

RESEARCH EXPERIENCE

Yonsei University (Medical Imaging and Computer Vision Lab)
Research Intern

Seoul, South Korea
Aug 2026 – Present

LG AI Research (Physical Intelligence Lab, Robotics Tech Cell)
Data Engineering Intern

Seoul, South Korea
Oct 2025 – Apr 2026

• Research Paper (Under Review)

- Co-first authored “RAIN: Robotic Task Generalization with Region-Aware Interaction Networks”, Seunghun Lee*, Kyuhwan Shim*, **Yeogyeeong Song***, Sihaeng Lee, Seung Hwan Kim, Byoung-Tak Zhang, Sunghoon Im, Gunhee Lee.
- Developed RAIN's core data generation pipeline, including simulator training data generation with task-relevant region masks and a subtask decomposition algorithm applied to real-world robot learning experiments.
- Constructed LIBERO-EX, a task generalization benchmark, and conducted comparative experiments against state-of-the-art models.

• VLM Data Quality Assurance

- Analyzed vision-language model (Qwen) limitations in physical and spatiotemporal reasoning to enhance the quality of automated captioning data generation.

SELECTED PROJECTS

WISPY – Specialized LLM Optimization & Data Engineering

Jan 2025 – Jul 2025

LLM & Infra Engineer

- Built a 570k-record storytelling dataset through crawling and augmentation; fine-tuned Llama-2-7B with LoRA and 4-bit NF4 quantization for child-safe, personalized dialogue generation.
- Deployed a scalable LLM service on AWS EKS and SageMaker using Terraform-based infrastructure automation, supporting efficient model serving and CI/CD workflows.

HEAROAD – Real-time Sign Language Recognition & Voice Visualization

Mar 2024 – Dec 2024

AI & Backend Engineer

- Developed a real-time accessibility system for sign language recognition and voice visualization; awarded Gold Prize (Minister's Award, MSIT).
- Optimized AWS-deployed inference with mixed precision, gradient accumulation, and checkpointing, reducing memory usage by 35% and improving inference speed by 30%.

BrainWorks – MRI-based Alzheimer's Prognosis Assistant System

Mar 2024 – Dec 2024

AI & Frontend Engineer

- Developed a VGG16-based Alzheimer's diagnosis model with customized MRI slice sampling and Grad-CAM interpretability, achieving 94.56% accuracy; awarded Bronze Prize (ACK 2024).
- Built a React-based clinical interface that separates physician workflows from AI predictions, enabling optional AI result display to support unbiased diagnostic decision-making.

PROJECTS

BOSINSA - Personal Color-Based Fashion Recommendation System

Nov 2024 – Dec 2024

AI Product Engineer

- Built a 100,000+ fashion image dataset and developed a FastAPI-based inference pipeline connected to a React frontend for real-time personal color-based recommendations.

iOS Development - Place Recommendation & Task Management for Procrastinators

Mar 2024 – Dec 2024

Lead iOS Developer

- Led award-winning iOS projects using MVC/MVVM architectures, building a video-sharing place recommendation service and a productivity planner for procrastinators.

Friendly - Generative AI-based Autonomous Mobile Platform	<i>Mar 2024 – Sep 2024</i>
<i>System Integration Engineer</i>	
Built a Raspberry Pi-based autonomous mobile platform integrating multimodal sensors, BERT-based sentiment analysis, and Google Assistant API for real-time human-robot interaction.	
RPA-driven Career Guidance System with T5-based Summarization	<i>Nov 2023</i>
<i>AI & RPA Developer</i>	
Developed an RPA workflow with T5-based summarization to aggregate career information and convert unstructured reviews into structured guidance; received a Special Prize from NIA.	
AI-based Crowd Dispersion & Spatial Recommendation System	<i>Jul 2023 – Aug 2023</i>
<i>AI & Backend Engineer</i>	
Implemented FP-Growth-based mobility pattern analysis and a computer-vision monitoring prototype to support crowd dispersion and spatial recommendation in high-density environments.	
IoT Coaster for Drink-Spiking Prevention	<i>Nov 2022</i>
<i>IoT & Server Developer</i>	
Engineered an IoT alert system using touch sensors and a hardware-to-mobile notification pipeline for drink-spiking prevention; received an Excellence Award.	

SKILLS

- Programming:** Python, C++
- Robotics & Simulation:** MuJoCo Simulator, Franka Emika, OMY, AI Worker
- Frameworks & Environment:** PyTorch, Ubuntu/Linux, Git, Docker
- English:** TOEIC Speaking – Advanced Low (AL)

AWARDS

Excellence Award , KB Kookmin Bank Talent Development Program (Social Contribution)	<i>Aug 2025</i>
Gold Prize (Minister’s Award) , ICT Probono Mentoring, Ministry of Science and ICT	<i>Dec 2024</i>
Bronze Prize , ACK 2024 Paper Competition, Korea Information Processing Delivery (KIPS)	<i>Nov 2024</i>
Grand Prize , Sopkathon, SOPT	<i>Nov 2024</i>
Excellence Award , BOAZ Big Data Hackathon	<i>Nov 2024</i>
Excellence Award , AppJam (Long-term Project), SOPT	<i>Jul 2024</i>
Special Award , AIRPA Hackathon, National Information Society Agency (NIA)	<i>Nov 2023</i>
Honorable Mention , Software Competition, Sungshin Women’s University	<i>Aug 2023</i>
Excellence Award , StartUp MAKER Camp, Sungshin Women’s University	<i>Nov 2022</i>

EXTRACURRICULAR ACTIVITIES

BOAZ (Big Data Alliance Club)	<i>Jun 2024 – Jun 2025</i>
Participated in advanced AI paper seminars and achieved an Excellence Award in a data science hackathon by implementing ensemble learning and audio feature analysis.	
SOPT (IT Venture Networking Club)	<i>Mar 2024 – Jan 2025</i>
Engaged in cross-functional team projects to build scalable iOS applications; recognized with a Grand Prize and an Excellence Award for technical innovation and product quality.	
GDSC (Google Developer Student Clubs)	<i>Sep 2022 – Sep 2024</i>
Facilitated technical workshops and spearheaded peer-led study programs as a core member to foster a collaborative learning environment and developer mentorship.	